

Carolina Country

September 1979



Let's Help Our Leader Lead

This editorial is reprinted from the August issue of *Indiana Rural News*, monthly publication of the *Indiana Statewide Rural Electric Cooperative, Inc.*

The Carter administration has come out swinging in an effort to remedy our rapidly deteriorating energy supply situation.

After years of rhetoric and indecision that has seen oil imports and their prices skyrocket—followed by millions of Americans waiting in line for hours to buy gasoline, truckers striking against higher costs and short supplies, predicted shortages of home heating oil, shortages for food production and a multitude of other problems, the President took a decisive step into the energy war.

In his July 15th speech to the nation the President rolled out a few of his big guns. He pledged to halt oil imports at the 1977 level and at the same time begin a long and painful fight to reduce them by one-half within the next ten years. In following speeches the President proposed that the nation spend \$140 billion over the next ten years to assure our energy needs for the future.

The President proposed the creation of an Energy Mobilization Board that would be authorized to cut much of the red tape that presently delays and sometimes causes complete abandonment of projects that would help our situation.

Carter proposed that \$88 billion be spent in support of a government backed Energy Security Corporation which would finance projects to

develop synthetic fuels from coal and oil shale as well as alcohol fuels from agricultural and forest products. The President pledged \$16 billion to improve mass transit systems to reduce petroleum demands. He requested \$3.5 billion for development and implementation of solar energy programs.

Recognizing energy prices will continue to increase in the years ahead the President said that he would ask Congress to provide \$24 billion over the next ten years to help cushion low-income Americans against the higher costs.

While the President seemed to be reluctant in the past to become involved in the controversy concerning nuclear power, he said, "nuclear power must play an

important role in our energy future.

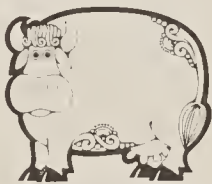
The President's statements and commitments concerning energy were vitally important; however, his statements and comments concerning Americans were even more important. He charged that our people are in a state of "paralysis, stagnation and drift." He said, "We simply must have faith in each other and faith in our ability to govern ourselves."

President Carter talked about what he called a fundamental threat to American democracy. He said, "The threat is nearly invisible in ordinary ways. It is a crisis of confidence. It is a crisis that strikes at the very heart and soul and spirit of our national will. The President promised to lead us into a better future.

Let's not just give him a chance, let's help him. □

The Passing Scene

Here's how W. E. Scheer, writing in the publication *Foremanship*, describes the cow—as seen by an automation expert:



A cow is a completely automated milk-manufacturing machine. It is encased in untanned leather and mounted on four vertical, movable supports, one at each corner. The front end of the machine, or input, contains the cutting and grinding mechanism, utilizing a unique feedback device. Here also are the headlights, air inlet and exhaust, a bumper and foghorn. At the rear, the machine carries the milk-dispensing equipment as well as a built-in flyswatter and insect repeller. The central portion houses a hydrochemical-conversion unit. Briefly, this consists of four fermentation and storage tanks connected in series by an intricate network of flexible plumbing. This assembly also contains the central heating plant complete with automatic temperature controls, pumping station and main ventilating system. The waste disposal apparatus is located to the rear of this central section. Cows are available, fully assembled, in an assortment of sizes and colors. Production output ranges from two to 20 tons of milk per year. In brief, the main external visible features of the cow are: two lookers, two hookers, four stander-uppers, four hanger-downers and a swishy-wishy. There is a similar machine known as a bull. It gives no milk but has other uses.

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A Fantasy

Would Edison's Light Bulb Have Survived 1979 Rules?

Since last October, the U.S. has been involved in a year-long Centennial of Light, marking the 100th anniversary of Thomas Edison's invention of the incandescent electric light bulb.

Here's what might have happened if Edison's invention came along in 1979 instead of 1879:

By Clarice R. Feldman

"Mr. Edison, the President of the United States is here to speak to you."

"He came all the way to the lab to congratulate me? He shouldn't have. He's much too thoughtful."

"I don't think he's here to congratulate you, sir."

"What do you mean. . . Oh, Mr. President. It's an honor. What can I do for you?"

"Well, Thomas, it's about this new invention of yours. You see, it's a great idea, but I wish you would just forget about it."

"What do you mean, sir?"

"Well, let me explain. In the first place, everyone will want it."

"That's the idea. People can work more easily and efficiently, it's easier to read by incandescent light, the streets will be safer. . ."

"Yes, Thomas, but you see, it will take a lot of electricity."

"Well, we'll build power plants, mine coal, string wires up, people will be employed and lives made easier, our gross national product will zoom."

"Thomas, every time we build a plant we'll have to prepare an environmental impact statement, it'll bankrupt the nation."

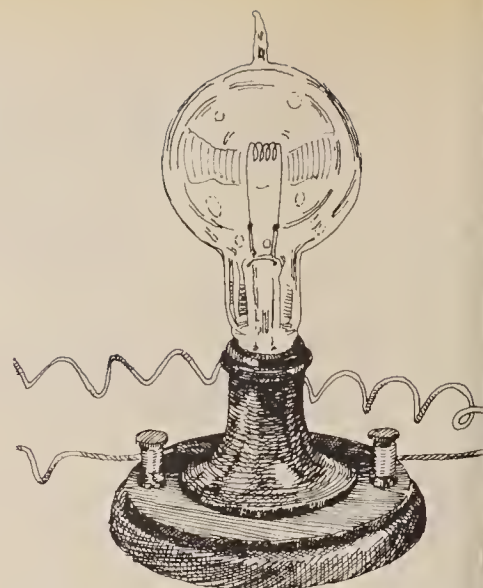
"Why it's easy to assess what the impact will be. . . What's so hard about that? Say it will assure safe, healthful, productive surroundings for people, that it will permit high standards of living. . ."

"It's not that simple, Thomas. For one thing, you have to list all alternatives to electric light."

"What alternatives?"

"Well, there's candles, wood fire, kerosene, sunlight, moonlight, starlight, fireflies. You have to answer whether those things are better for the environment than the light bulb. Then you have to predict the environmental consequences of the proposed action. Here are the Council on Environmental Quality regulations so you can see what this all involves."

"I see what you mean: 'Cumulative impact—the impact on the



environment which results from the incremental impact of the action when added to the past, present and reasonably foreseeable future actions regardless of what agency. . . or person undertakes such other actions.' But this is impossible to predict."

"Unfortunately, Thomas, that doesn't matter. The law requires the prediction of impact whether the capability exists or not."

"Listen, Mr. President, I'm a simple inventor, not a genius, what does the language in the regulations mean? 'Human environment' shall be interpreted comprehensively to include the natural and physical environment and the interaction of people with that environment. When an environmental impact statement is prepared and economic and social and natural and physical environmental effects are interrelated, then the environmental impact statement will discuss all of the effects on the human environment."

"Well, I'm only an engineer myself but it seems to mean we want to know everything about technological advances. Even the things we can possibly know."

"Mr. President, I'm beginning to understand the problem, and it's clear I'm not the sort of person who could invent a way out of it. Would it be okay if I just used the bulb in my laboratory?"

"I'm sorry, Thomas, but you see, just heard from the Department of the Interior. It seems there are some moths in the area that look an awful lot like the furbish darter, an endangered species, and we're afraid they might be attracted to your lights and die."

"I understand perfectly. I'll just light one little candle."

Clarice R. Feldman is general counsel for the Americans for Energy Independence.



Secretary of State Thad Eure, left, presents membership certificates to George Huffman of Hickory, center, and Novile Hawkins of Rt. 1, Mars Hill after they were sworn in as the newest members of the board of the North Carolina Rural Electrification Authority. They were appointed recently by Gov. Jim Hunt to succeed Fred Keith of Lumberton and Lester Babson of Rt. 2, Ashe. Hawkins, 71, a retired businessman, has been vice president of the French Broad EMC board for the past seven years. He is a former director of the statewide EMC organization. Huffman, 35, pastor of Hickory's Brookford Baptist Church, is a member of the executive committee of the Burke County Democratic Party and various civic organizations. Other members of the N.C. REA board are Mrs. J.K. Eason of Sanford, vice chairman Russell Seawell of Rt. 2, Bennett and chairman James S. Melton of Rt. 2, Hubert.

Special Announcement

To all North Carolina Rural Electric consumer members and their families

Now... North Carolina RE Consumer Members of all ages qualify—you **cannot** be **turned down** for this RE Group Hospitalization Supplement. This is the only direct-to-you Group Plan officially recommended and endorsed by your National Rural Electric Cooperative Association.

We're Concerned

Over the last few years, the cost of medical care has almost doubled according to American Hospital Association's reports. As a matter of fact, the average per patient cost to a community hospital is now more than \$180 A DAY! Most group and individual hospitalization plans are not designed to cover the full hospital bill... even Medicare recently announced another increase in the amount of its deductible... the amount Medicare patients must pay out of their own pocket.

The Largest Cause of Personal Bankruptcy

Justice President Mondale has stated that hospital bills "are the single largest cause of personal bankruptcy in the United States." When you consider what a single day in the hospital costs, it's easy to see why.

For RE Consumer Members Only

Problems like these caused your National Rural Electric Cooperative Association (NRECA) to arrange its own insurance programs for rural electric cooperative employees and members (ELCO® Programs). First our National Rural Electric Cooperative Association set out to find a national insur-

ance company with an impeccable reputation. Next, they arranged a supplemental hospitalization plan that would do the best job possible for all RE consumer members and their families. And finally, NRECA set up their own service center for ELCO® Programs to help assure RE consumer members prompt, courteous service and prompt claims payment. This RE Group Hospitalization Supplement, underwritten by the highly respected Continental American Life Insurance Company, is the result.

Don't Be Misled by Look-Alikes

Some insurance ads try to give you the impression they are official RE plans, sponsored by your National Rural Electric Cooperative Association. Only those programs that bear the ELCO® or RE® trademarks are officially endorsed by your National Association. These trademarks are your guarantee of service and quality.

You Cannot Be Turned Down

This RE group plan is available to RE members in most states. Every member who enrolls will be accepted regardless of age or occupation. However, Continental American must limit coverage in force under all policies of this type with their company to one per member.

Your Own RE Consumer Service Center

Your National Association's Service Center for ELCO® Programs will provide RE consumers with the best possible service. If you

have questions about your protection benefits available, or changes to your plan, just call the NRECA Service Center. The special RE consumer telephone number is (919) 832-7597... call COLLECT any weekday and ask for Bill Plunket. He'll be glad to help you.

Free Group Hospitalization Planning Kit

To get your free Group Hospitalization Planning Kit, just fill out the coupon on this page and drop it in the mail. The Kit will be mailed to you and will fully explain what is covered, what is not covered, costs and terms of renewability. There is no obligation and no one will call on you. So please act now.



Your National Rural Electric Cooperative Association's Own Insurance Program is underwritten by Continental American Life Insurance Company, Wilmington, Delaware.

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CP&L Nuclear Plant's Visitors Center Open

The Visitors Center at the site of Carolina Power and Light Company's Shearon Harris nuclear power plant in southwestern Wake County is now open to the public, providing information about energy, the plant itself and the CP&L system.

The center is about 2½ miles from the site of the plant, whose first unit is scheduled to go into operation in 1984. It features 30 exhibits, a 12-minute film on the national energy dilemma and a slide presentation on the Harris plant. Adjacent to the exhibit area is a nuclear plant control room simulator, where nuclear reactor operators are trained.

Regular bus tours of the construction site are coordinated from the center.

The plant site is 20 miles southwest of Raleigh and 22 miles north of Sanford. To reach it, turn off U. S. 1 at the New Hill exit. The Visitors Center is one mile east of U. S. 1 on SR 1135.

The center is open from 9 a.m. to 4 p.m. Monday through Friday, except holidays. Through the end of September, it will also open from 11 a.m. to 5 p.m. on Saturday and from 1 to 5 p.m. on Sunday.

For further information, or to schedule group visits, write or call the

center, P.O. Box 327, New Hill, N.C. 27562. Phone: 919-362-8633.



Co-op Council Camp Attracts 43 Youths

A total of 43 high school students representing 21 cooperatives across the state, participated in the 1979 Cooperative Youth Camp sponsored by the North Carolina Co-op Council.

The program, featuring lectures on how co-op organizations operate and a full slate of recreational activities, was held at Camp Millstone, a 4-H camp near Ellerbe.

Secretary of State Thad Eure presented a mock charter to a T-shirt co-operative organized by the campers to sell camp T-shirts. Various state officials and representatives of co-op enterprises throughout the state also presented programs during the week-long camp.

UNC Program Offers Hurricane Poster

"Hurricanes on the Coast of North Carolina" is the title of a handsome, four-color poster that's being offered by the University of North Carolina Sea Grant Program.

Against a blue background, the poster presents a satellite photo of Hurricane Belle, photos of the destruction wrought by Hurricanes Hazel and Donna and several maps showing the paths of tropical storms and hurricanes through North Carolina. It also features an explanation of the National Weather Service's various announcements regarding hurricanes.

The free poster may be ordered from the UNC Sea Grant Program, P.O. Box 5001, Raleigh, N. C. 28650.

Co-op Month Breakfast Slated In Charlotte

A former energy specialist with the National Council of Cooperatives will address the North Carolina Co-op Council's 1979 Co-op Month breakfast Oct. 3 at the Holiday Inn No. 3, North Tryon Street, Charlotte.

Bill Brier, who is now with the Energy Cooperative, Inc. in Washington, will discuss the national energy crisis and how co-ops are meeting their energy needs at the 7:45 a.m. event.

The Co-op Council sponsors the breakfast each year as an observance of national co-op month. Its purpose is to help educate community leaders about co-ops and their methods of doing business.

For additional information about the breakfast, call your local electric telephone or farm supply cooperative, or write to Charles Colvard, N. C. Co-op Council, P. O. Box 10426, Raleigh, N. C. 27605.

USDA Meeting Slated For Nov. 28 in Fayetteville

Agriculture Secretary Bob Bergland and other top USDA officials will appear at a public meeting in Fayetteville Nov. 28 to hear comments and suggestions on the economic and social issues affecting the structure of American agriculture and rural life.

Fayetteville is one of 10 cities across the country where the USDA team will hold such meetings in November and December. The time and location for the meeting will be announced later.

The meetings are part of the "national dialogue on agricultural structure" which Bergland announced earlier this year. The forces that have shaped farming in this country need to be re-examined, he said.

"Our intent is to develop the most comprehensive package of factual information and recommendations for use in proposing future policies, especially new farm legislation when the current farm bill expires in 1981.

Carolina Country September 1979

Interlaken Grape Vines Featured in Cover Photo

Interlaken grapes cluster on the vines just before harvest. The photo, which was made in Montreat by E.A. Andrews, Jr., is featured as the September photo in the 1980 *Mountain Meditations Calendar* published by Andrews and Dr. John R. Crawford of Montreat Anderson College.

Our thanks to them for allowing us to use the color separations of the photo.

For information on how to order copies of the calendar, see ad, Page 22.

Issues to be considered include the number and size of farms, ownership and control of resources, production specialization, social and economic characteristics of farmers and barriers to entering and leaving farming.

Individuals who wish to address the USDA panel at the Nov. 28 meeting should register in advance by writing Project Coordinator, Structure of Agriculture USA, Washington, D.C. 20205. Those who wish to comment but cannot attend one of the meetings may send their suggestions to the same address.

REA Loans Awarded To Four Tar Heel EMCs

Four Electric Membership Corporations have been awarded Rural Electrification Administration loans for extension of electrical service and system improvements:

- Jones-Onslow EMC, Jacksonville, received a \$4.5 million loan for 97 miles of distribution line to serve 527 members, 18.7 miles of

transmission line and other improvements.

- Lumbee River EMC, Red Springs, received a \$2.2 million loan for 153 miles of distribution line for 2,300 members and system improvements.

- Tideland EMC, Pantego, received a \$2.2 million loan for 80 miles of distribution line for 1,480 members, 5.1 miles of transmission line and system improvements.

- Crescent EMC, Statesville, received a \$3.6 million loan for 119 miles of distribution line for 3,290 members and system improvements.

Directors Elected At Annual Meetings

During recent annual meetings, members of three Tar Heel Electric Membership Corporations each elected three directors to serve on their boards:

- Three incumbent directors were re-elected at Pee Dee EMC, Wadesboro. They were J. C. Thompson of Rt. 3, Mt. Gilead; Marion Ratliff of Rt. 3, Wadesboro and

Cecil McCall of Rt. 1, Ellerbe.

- Two incumbents and a new director were elected to the board at Haywood EMC, Waynesville. The new director is Carl E. Bryson of Cashiers. A few days later, Emmit P. Wood of Scaly Mountain was appointed to fill the unexpired term of John D. Head, who resigned. Incumbents who were re-elected were Jack Harris of Rt. 2, Clyde and Roy B. Medford of Rt. 4, Waynesville.

- The entire board of Union EMC, Monroe, was re-elected to another one-year term. The directors are Bruce Thompson of Charlotte; Boyd C. Haigler of Rt. 3, Monroe; J. Grant Duncan Jr. of Rt. 1, Indian Trail; William R. Wilson of Rt. 1, Richfield; B. L. Starnes of Rt. 1, Waxhaw; J. Ray Efird of Rt. 4, Albemarle; Thurman Harwood of Rt. 3, New London; A. O. Flowe of Rt. 2, Midland; Ralph E. Johnson of Charlotte; Rufus N. Reid of Concord and Vann W. Hilton of Rt. 1, Marshville.

Six EMCs Set Annual Meetings

Six Electric Membership Corporations across the state have slated their 1979 Annual Meetings during the coming weeks.

Here's the schedule:

- Central EMC, Sanford - Oct. 5 at Lee Senior High School. Registration at 6:30 p.m., business meeting at 7:30 p.m.

- Albemarle EMC, Hertford - Oct. 6 at Perquimans County High School. Registration at 1 p.m., business meeting at 2 p.m.

- Surry-Yadkin EMC, Dobson - Oct. 13 at Surry Central High School. Registration at 12 noon, business meeting at 2 p.m.

- Lumbee River EMC, Red Springs - Oct. 17 at Pembroke State University in Pembroke. Registration at 6 p.m., business meeting at 7 p.m.

- Brunswick EMC, Shallotte - Oct. 26 at Smith's Warehouse in Whiteville. Business meeting at 1 p.m.

- Davidson EMC, Lexington, - Oct. 27 at J. W. Dillard Primary School in Madison. Business meeting at 4:30 p.m., with a barbeque supper to follow the meeting.

Home Folks

J. C. Brown, former editor of *Carolina Country* and manager of the North Carolina statewide EMC organization, received two awards in a recent national communications contest for his publications work with the National Rural Electric Cooperative Association in Washington. He won first place in the newsletter category and an award of merit in the magazine category in the Cooperative Editorial Association competition. **Lettie Mason** of Raleigh has been designated the "First Lady of the Ballot Box" by the State Board of Elections. The 100-year-old Fuquay Springs native received a certificate for being the oldest continuous voter in North Carolina. She was the first woman to register to vote in the state in 1920, when the Nineteenth Amendment granted women voting privileges. **Keith H. Merrick** of Raleigh, a supply analyst in economic research and development with Cotton Inc., has been awarded the first place award in the 1979 national research awards program of the American Institute of Cooperation. The \$600 award cited Merrick's master's thesis at Texas A&M University, which focused on the impact of inflation on farmer cooperatives. **Lynn A. Brown**, deputy state conservationist with the USDA Soil Conservation Service in North Carolina, has been named state conservationist for Washington state. **Gary Tabak**, who served as executive vice-president of Electric Power in the Carolinas (EPIC) from 1971 until it was dissolved in 1974, has been named assistant to administrator of the Rural Electrification Administration. He'll serve Administrator Robert W. Feragan as a policy adviser on program objectives and financial security. EPIC was an organization of consumer-owned electric systems which planned to build joint generation and transmission facilities.

John Costlow: "To Me, That's Democracy"

Gov. Jim Hunt announced in March, 1978, that a waterfront site in the most populated section of Carteret County would be the scene of construction for the country's second largest liquefied petroleum gas (LPG) storage facility. Gulf Interstate Engineering company of Houston and two unnamed companies were to develop the project.

Details were vague. What regulatory permits would the three companies need? Who would be liable in case of accident in such a joint venture? It was rumored that LPG was explosive stuff, a potential fireball. Government and industry officials stressed the need for secrecy in such corporate affairs.

Only days after the governor's first surprise announcement, an LPG railroad car exploded in Waverly, Tennessee, killing 12 people. Within six months, opposition by citizens made it clear that Carteret County's welcome mat was *not* out to Gulf Interstate and partners' 21 million gallon facility. And now, a year and a half after it all started, Dr. John Costlow, who led local citizens in asking questions, is still watchful.

"I would like to think that if at this point a company were to request permits to build an LPG storage facility, the same bureaucrats who before were not being too open about things would feel that they *better* be open or they could get themselves into a very difficult position."

Today John Costlow and other concerned citizens are keeping an observant eye on several additional industries which hope to locate in Carteret County: an oil refinery and a nuclear power plant waste shipment operation. People on the coast fear that dirty, and possibly hazardous, industry will hurt tourism, commercial and sports fishing, and the agricultural economy — and will damage a

certain pace and natural beauty of their homeland.



Dr. Costlow is director of the Duke University Marine Laboratory in Carteret County and an ex-mayor of the town of Beaufort. Last year, he saw television reports of the railroad explosion and called the Waverly newspaper for clippings about the accident. Thus began a summer of information gathering, contacting federal agencies and learning about past catastrophes with LPG, about its dramatic potential for more destruction, and about the weaknesses of the current government regulatory system. Dr. Costlow took what he had learned to local civic clubs and the county commissioners. State and local newspapers, TV and radio took note, and so did the public and their politicians.

Further support came, in August when the General Accounting Office released a three-volume report which stated strongly that LPG facilities should be built only in *remote, unpopulated* areas. Costlow sent a copy to the governor.

Then, in September, Costlow hosted a public forum about LPG which drew over 300 local people — businesspeople, commissioners, mayors, environmentalists,

students, retirees. The comparison declined to attend. After the GAO report netted front page headlines, the governor withdrew his initial unreserved support of the LPG storage facility. And following the forum, Gulf Interstate announced a change of plans, "market turnaround," and the company dropped from the public eye.

Since the forum, Dr. Costlow has thought considerably about how citizens can best watchdog companies that choose to come to their counties, to ascertain possible effects on their economic lives and environment. "I would like to see us try to develop 'flow sheets' whereby the average citizen can look at the sheet and determine at what stage a permit is required, whether a public hearing may be held or must be held, whether or not they can have input into demanding that a hearing be held, because most of us are so ignorant of all these nuances that you don't know who to call, where to call, or what to call about!"

During the time of the LPG controversy, Dr. Costlow now recalls, he spoke with a friend who thought citizens should leave decisions about economic growth to the politicians they elect. Needless to say, Costlow disagreed.

"I maintain that having elected five people to run this county, it is my responsibility to do what I can to help them, provide information and, in the event that they make a decision that I think is a bad decision, to do what I can to change their minds."

"Within the last decade we pulled out of a war because of public opinion, and we got rid of a president because of public opinion, and I don't see anything wrong with that. To me, that's democracy."

—Jennifer Miller
Free Lance
Swansboro



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Rediscovering The Wonders of Hydro

For the past 50 years, Consolidated Knitting Mills, a small textile manufacturing plant outside Charlotte, has relied on a 450 kilowatt hydroelectric turbine for much of its energy needs. As a result, the firm saved about \$50,000 in heating and air conditioning expenses in 1978. Similar savings over the years are one of the main reasons the company has been able to stay in business.

However, Consolidated Knitting Mills' dependence on hydroelectric power is an exception. Most of the small dams in North Carolina, which once played an important role in the development of the state's industries, have since been abandoned or destroyed.

Yet the rising price of oil has brought a resurgence of interest in hydroelectric generators.

"When you see where other energy prices are, hydroelectric power begins to look more and more attractive," said John Warren, a researcher with Research Triangle Institute (RTI).

Flowing Water Free and Renewable

Flowing water, the fuel for electricity-producing dams, is free and renewable. Operating and maintenance costs for hydroelectric plants are low, and their environmental impact is minimal.

In addition, the technology for harnessing the energy of streams and rivers has been around for nearly a century and has proved to be a safe and reliable source of electricity.

Dams have already been built on most of the nation's commercially promising sites, so attention has now turned towards the development of small hydro facilities that can supply power to local communities and industries.

"The major barrier to the development of small hydroelectric plants in recent times has been the initial financing," said Warren.

But, he added, a new federal program may be just the boost small dam owners need to develop the potential energy sources.

Beginning Oct. 1, the U. S. Department of Energy (DOE) will provide dam owners with low-risk, low-interest loans for studies to find out whether their dams can become power producers. DOE funds will also be available to help defray the costs of preparing an application for a license from the Federal Energy Regulatory Commission.

To make sure eligible North Carolinians are among the first in line to apply for the DOE funds, the N.C. Energy Institute has contracted with RTI to search for owners of dams that have a good chance of receiving federal funds and to provide support for those interested in developing small hydro sites.

Given In-Depth

From a list of over 3,000 dams in the state, RTI has identified 300 sites for further analysis.

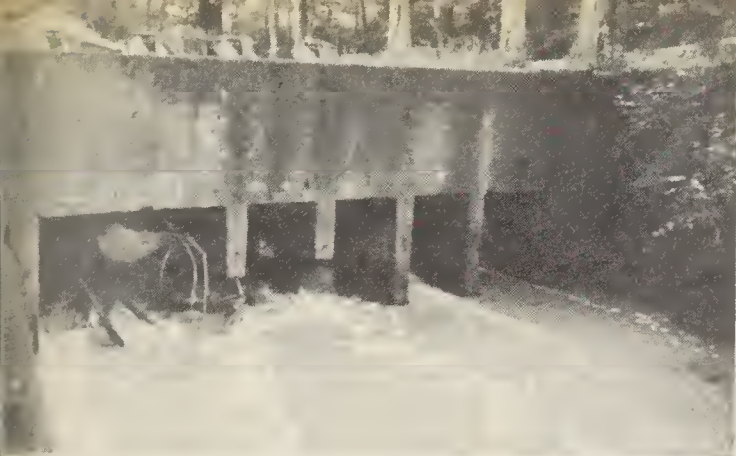
"To develop this list, we considered the height of the dam, its power potential, ownership and flow of the stream," Warren said.

State, city and corporate dam owners were preferred because they will be more likely to be able to obtain the money needed for a project, once it is deemed feasible.

"There were many dams with a large power potential that were not on our list because they were owned by a family or one person," he said. DOE loans cannot be used for construction, and it is unlikely that an individual could finance the construction of a generating facility.

Most of the owners of the 300 selected dams were contacted by telephone to gather further information and to determine their interest in developing a source of hydro electric power. These interviews pared the list of sites that would be in the most competitive position for DOE funds to 20 - 30.

Reprinted from Hypotenuse, a publication of the Research Triangle Institute.



OPPOSITE — The water of Deep River becomes a potential energy source at this point near the Moore County community of High Falls. In fact, a dam here tapped these waters for many years to provide electricity for a textile mill. **ABOVE** — The spillgate of the dam, now cluttered with debris, ceased to produce hydroelectric power in 1954, when Randolph Electric Membership Corporation, Asheboro, began serving the mill. The co-op power was less expensive then, but rising power costs have prompted a new look at small-scale hydro sites like this one.

The DOE loans, which will range up to \$50,000, must be repaid within ten years. However, they will be "forgiven" if a site proves not to be feasible, Warren said.

Besides locating dams with a good potential for development, and informing the owners about the federal loan program, RTI is working with those who want to apply for a DOE loan to help them minimize institutional and regulatory delays.

"We are familiar with the regulatory maze and know how to get everything done efficiently as far as registering goes," noted Warren. It typically takes from 6 to 12 months to get a license to operate a hydroelectric plant at an existing dam site.

RTI also provides assistance to those interested in small hydro development by publishing a newsletter and by answering inquiries from dam owners across the state.

North Carolina is the only state in the country that has launched such an extensive program to spur the development of small hydro plants.

Because it is unique, RTI's study has attracted national attention. Warren recently presented programs on Small Hydroelectric Development in North Carolina at meetings in Atlanta and Portland, Ore.

The state has also begun to work with researchers in North Carolina, who are attempting to determine the potential of hydropower in the state, and preliminary contacts have been made in Georgia, which could lead to a survey of existing dams there.

Hydroelectric power alone will never meet all of the state's energy needs.

It is not a panacea for the state's energy problems," according to Warren.

Yet, along with other alternative energy sources, hydropower can help lessen the load placed on coal and nuclear power plants. And the redevelopment of small hydro projects can have a significant impact on the power needs of small power users, such as industries, rural cooperatives and small towns. □

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State Sets New Conservation Emphasis

A new division of state government has been established—borne out of a growing commitment to conserve our state's natural resources.

Effective July 1, the Soil and Water Conservation section of the Division of Land Resources, was elevated to division status in the Department of Natural Resources and Community Development.



Along with its new status, the Division of Soil and Water Conservation acquired a new director, Dr. Joseph Phillips, former professor of soil science at North Carolina State University. He is the current chairman of the N. C. Sedimentation Control Commission.

The appointment of Dr. Phillips and the division's status reflect the state's new emphasis on soil and water conservation and signal a rebirth of the conservation ethic that took root over four decades ago in the formation of conservation districts across the nation.

Movement Began in 1937

In 1937, voters in North Carolina's Brown Creek District organized the first conservation district in the country by local initiative.

Today, the state has 93 conservation districts, encompassing all 100 counties. These popularly organized subdivisions of state government have historically provided local citizens a voice in the conservation and development of natural resources in their communities.

The Division of Soil and Water Conservation is responsible for implementing a statewide campaign for resource conservation by assisting these 93 conservation districts with their local programs.

The division also conducts a soil survey program, designed to

accelerate the ongoing Soil Conservation Service effort to map all the soils in North Carolina. Projections call for progressive soil surveys to be completed across the entire state by 1990. Soil survey maps are part of the division's overall goal to promote the wise use of our state's natural resources.

Water Pollution A Concern

A primary duty of the new division is to coordinate the agricultural portion of the state's plan for controlling non-point sources of water pollution. These pollutants include sediment, pesticides, nutrients, and bacteria washed into streams by rainfall runoff.

The state's comprehensive plan for water-quality management recently gained approval from the Environmental Management Commission, and is now under review by the Governor's office. The state plan will be forwarded to

the U. S. Environmental Protection Agency for approval under terms of the Federal Water Pollution Control Act.

The division's staff also includes a watershed planning section that provides technical assistance to design and evaluate small watershed projects in North Carolina. These projects are designed to solve local flooding, drainage, water supply and water quality problems and to create recreational, fish, and wildlife habitats.

Sponsor Educational Programs

The division is also involved in educational activities such as sponsorship of a week-long Resource Conservation Workshop for high-school students, training workshops for district personnel, and assistance in statewide contests sponsored by the N. C. Association of Soil and Water Conservation Districts. □

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Based On 19th Century Design

This Windmill Doesn't Need Space Age Technology

While engineers get the world's biggest windmill ready to generate electricity for Blue Ridge Electric Membership Corp. in the North Carolina mountains, a very different windmill is getting ready to harness the wind on the coast.

The lure of history. Fascination with the Coastal way of life. Hopes of making money. That's why there's a replica of a 19th century windmill sitting on Roanoke Sound at Nags Head.

It's authentic down to the hand-forged metal work. That's the way it had to be built, even though it meant a hefty price tag of more than \$250,000.

Lynanne Wescott of Manteo wouldn't stand for it any other way.

The 35-foot post-type windmill, just like the windmills that once dotted the coast, was built in the Surry County, Va., shop of Derek Ogden, a professional millwright, using traditional millwrighting methods. The job of assembling the pieces at the sound began in early August.

All wooden parts were cut with old tools—no fancy electric power saws. The structure of the mill is joined with hand cut wooden pegs, not nails.

The main post of the mill is made of imported English oak, over 200 years old, carefully selected for its close-grained dense wood to

Windmills like these were part of life on the North Carolina coast in the early 1700s, but fell into disuse by the end of the 19th century.

provide strength. The interior machinery is simple, but efficient: The brakewheel, about six feet in diameter, drives a small lantern pinion which is fitted to a quar and overdrives a single pair of millstones. The windshaft is all oak construction with sail stock morticed directly through the shaft. A tailpole with wooden wheel on the end allows the mill to turn the mill to face into the wind no matter what the direction so a shift of wind doesn't stop the milling process.

"Everything was done just exactly like it would have been done back then," Ms. Wescott said. "It's different, and I like to do things that are different. It's something that just really appeals to me so I did it."

She hopes the windmill will be a tourist attraction and a money maker. For a small admission charge, visitors will be able to view the entire milling process. The mill grinds corn, wheat, rye, oats and other grains when the wind blows.

It will be attended by Master Miller John Elsea and an apprentice who, dressed in period costume, will guide visitors, explaining the mill, its historic significance and how it works.

Milled grains and windmill-related gifts and handicrafts will be on sale in a barn near the mill. Ms. Wescott said the handicrafts





It's virtually impossible to tell this nearly completed windmill from the ones built on the coast way back in the 19th century.



re selected for one-of-a-kind uniqueness. There's even going to be a windmill museum with old photographs and maps showing coastal mills of centuries past.

The windmill isn't at all like the electricity-producing windmill that recently went up in the mountain town of Boone. The technology is all different. Wood compared to steel and fiberglass. Modern compared to old-timey. She wondered out loud what the English and Dutch settlers who brought the windmill to this country would think about how far their technology had reached.

Ms. Wescott had to secure loans from three lending institutions before the project could get off the ground.

"Each felt the windmill was not only a good business venture, but also a significant addition to the historical scene of the Carolina coast," she said.

Windmills have been a part of life on the North Carolina coast

since the early 1700s. During the Civil War, Union troops used them as lookout posts. They were used as landmarks by ships rounding treacherous Cape Hatteras long before any lighthouses were built. But most of the windmills fell into disuse by the end of the 19th century.

An Ashe County man has built his own windmill to produce electricity for his home. See story, Page 22.

It is thought by many that early windmills were probably built by seamen and shipwrights since many of the fundamentals of sailing apply to the functions of windmills. The windmiller would need to know not only the particulars of grist grinding, but he would have to have a knowledge of the construction, repair and use of sails, which necessitated an understanding of wind dynamics, carpentry, mechanics and

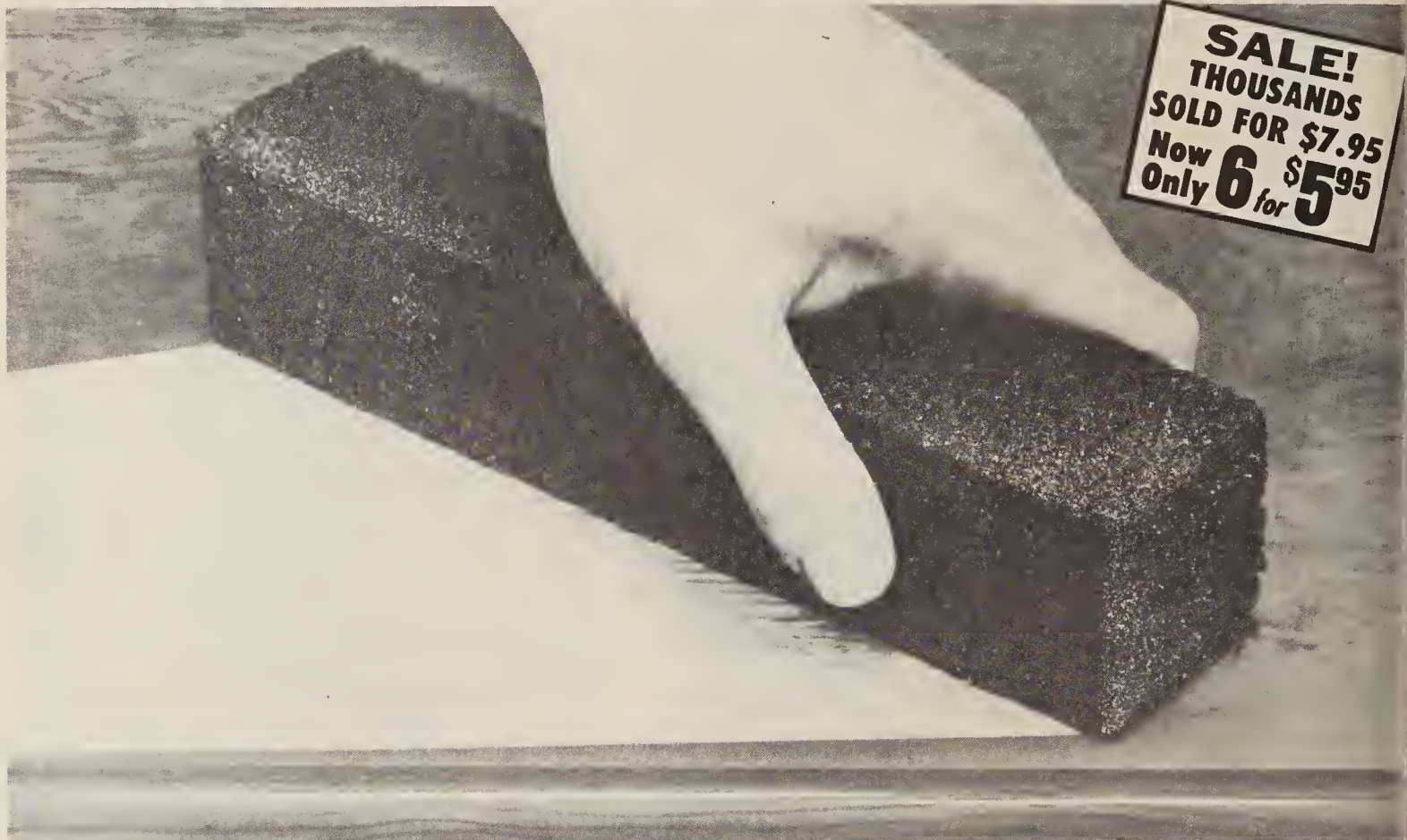
engineering as well as an eye for the weather.

The origin of the windmill is not clear. Recent evidence attributes its discovery to Persia or China. Whether the idea traveled to Europe via the East or was spontaneously invented in various places is subject to debate and speculation. By the 12th century, windmills had begun to appear in England and Northern Europe. The idea was brought to America and developed rapidly by both English and Dutch settlers.

The attraction of mills is easy to understand. They harness the natural element of wind to turn raw material into usable form. Because our most basic need is food, mills that ground grain were the first to make the crucial advance that substituted natural power for human labor. A mill seems such a charming anachronism that it's easy to forget how essential they once were to community life and the expanding economy. □

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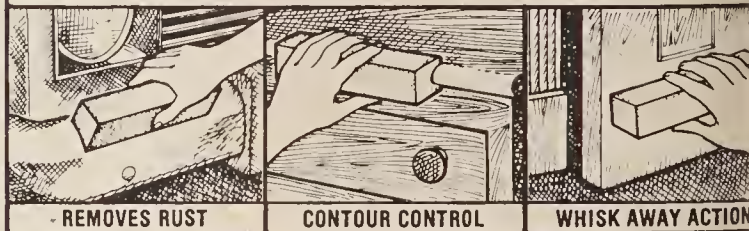
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Eight 4-H'ers Win Posts on Congress Newspaper

Eight high school students from across North Carolina were selected to serve on the staff of *Clover Leaves*, the daily newsletter of the annual 4-H Congress in Raleigh, as a part of a new 4-H journalism program.

District Contests Held

Under the program, 4-H members were given an opportunity to compete in news writing and editing contests on the district level. Winners were selected to attend the Congress and serve on the *Clover Leaves* staff. In previous years, the staff was selected from among volunteers who were attending the Congress to compete for awards in other areas.

One of the eight staffers, Karen Kornegay, was selected as winner of a \$50 savings bond for outstanding contributions to *Clover Leaves*. An editor of the publication, she is the daughter of Dr. and Mrs. J. M. Kornegay of Warsaw.

Funds for scholarships covering the district winners' expenses at the Congress and the award were provided by *Carolina Country*.

The seven other student reporters included another editor and six reporters. The editor was Scott Morgan, son of Mr. and Mrs. Ned Morgan of Rt. 11, Lexington.

The reporters were: Beverly Scarlett, daughter of Mr. and Mrs. John Scarlett of Rt. 1, Durham; Cheryl Hudson, daughter of Mr. and Mrs. Sam Hudson of Jacksonville; Kip Cook son of Mr. and Mrs. Horace Cook of Albemarle; Greg Mitchell, son of Mr. and Mrs. Wade Mitchell of Rt. 1, Walnut Cove; Malinda Wright, daughter of Mr. and Mrs. A. Wade Wright of Rt. 6, Mocksville; and Nicole Wyatt, daughter of Mr. and Mrs. Clara Witherspoon of Rt. 1, Weathersfield, Jefferson.

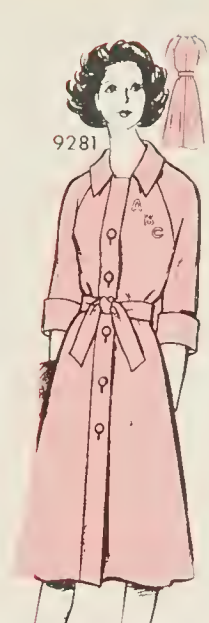
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9179
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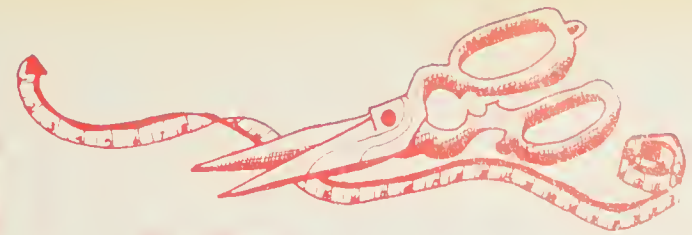


34 48 9361



9281

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Country Kitchen

BACON BIG BOYS

September is still a hot weather month, and Mrs. Jackson says that this is a "tempting and tasty treat for the summer that's super easy to fix." The kids love it, and Dad will brag about it, she adds, and it's not expensive to make. It will also be a delicious treat for the back to schoolers at your house who are always hungry after a busy day at school.

If you would like to share a recipe with this column, send to: COUNTRY KITCHEN, P.O. Box 27306, Raleigh, NC 27611. We pay \$5 for published recipes.



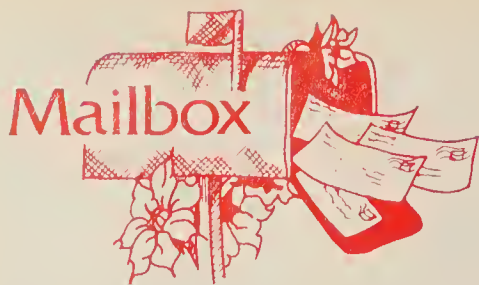
COUNTRY KITCHEN RECIPE

Submitted by Mrs. Patricia D. Jackson of Mill Spring

BACON BIG BOYS

- | | |
|-------------------------------|---------------------|
| 2 large French rolls | 4 frankfurters |
| 4 slices sharp cheddar cheese | 6 to 8 slices bacon |
| (or American will do) | Prepared mustard |

Split rolls lengthwise; if tops are rounded, trim slightly. Spread inside of tops with prepared mustard. Arrange two cheese slices and two frankfurters on bottom half of each. Replace tops. Wrap three or four bacon slices spiral fashion around each roll; secure with picks. Place, top down, on rack in shallow pan. Bake 400 degrees for 5 to 8 minutes. Turn; bake 5 to 8 minutes more. Cut into four pieces for four servings.



Finds Kindness 'Refreshing'

I wish to express my appreciation to the one who is responsible for sending me the recipe for Pear Honey. In response to my simply asking the girl who answered the phone at Rutherford EMC, Forest City, for the recipe, she made the call to Raleigh and someone there went to an extra effort to find the magazine which carried the recipe and sent it to me at your expense.

Your kindness is very refreshing.

Linda Allen
Rt. 2, Bostic

Human Error Poses Threat With Nuclear Power Plants

I understand your position on nuclear power in your recent editorials. However, there are no effective ways to safely dispose of the radioactive waste material. Secondly, there will always be small mistakes made with nuclear power plants as long as humans continue to operate them. Mankind has come a long way in science in the past 50 years, but we are still just people. People will always make mistakes. And to say we won't would be equating us with God.

There are no second chances with this nuclear power. The radioactivity released on and around Three Mile Island will be here for thousands of years. It isn't going to go away. After more mistakes it will just keep building up stronger and stronger, poisoning our children and their children. We must stop all use of nuclear power in any form.

I'll pay higher power costs and be more dependent on foreign energy, lose my job and have a lower standard of living. Is that much to give up for the future of the world?

Sterling Nicholson
Rt. 1, Walnut Cove

Fear of Nuclear Power Being Heard in U.S.

While I have looked forward in the past to receiving our monthly copy of *Carolina Country*, I have noticed recently it is becoming more and more a propaganda sheet promoting

nuclear power.

I've read the articles and editorials praising nuclear power as clean, efficient and safe, and though I know different, have not responded. However, Mr. James M. Hubbard's "Commentary" in the June issue was so much bunk, I find I must reply to it.

I believe the American citizens' fear of nuclear power is being heard—heard loud and clear by the corporations who have sunk millions upon millions of dollars into it and are afraid they are going to be stuck holding the bag when the government outlaws these incredibly dangerous beasts. Yes, Mr. Hubbard is right. The human race is an endangered species—endangered by men who put profit before humanity.

Mr. Hubbard is naturally worried about the country becoming a "decentralized agrarian society with reduced energy consumption" because reduced energy consumption will pinch those silk-lined pockets.

The American public is learning to unite against real evil. It looks like we won't be bulldozed by huge corporations peddling evil for profit anymore, and that's what Mr. Hubbard is worried about.

No one knows the long term effects of the Three Mile Island incident. Everyone knows the total destruction of the "Hiroshima incident." I'll gladly trade my share of any nuclear power plant for a hoe and an oil lamp. I know they won't hurt a soul. Can Mr. Hubbard say that about his nuclear power plants?

Leslie L. Coburn
Rt. 1, Franklinton

Commends 'Fine Work'

I would like to commend you on your fine work in the magazine, *Carolina Country*. This magazine has great articles which come from all parts of North Carolina that keep readers wanting more.

Allen Sandy
Rt. 2, Raeford

Thanks for Support of 4-H Journalism Project

I want to thank you for *Carolina Country's* sponsorship of the 1979 4-H Clover Leaves (4-H Congress newsletter) staff. Our state 4-H program depends on the support we get from generous donors—and we are grateful for the response we receive from state businesses and industries! This year's *Clover Leaves*, I believe, was superior to last year's—and I can criticize because I was on the staff both years—and the contribution made by *Carolina Country*

was a definite factor in this improvement.

The staff also enjoyed the tour of your offices and we were impressed by the array of awards you have won! For many of us, this was our first glimpse of magazine production. The week was a great experience for us all!

Karen C. Kornega
Warsaw

Magazine Should Present Opposing Nuclear Views

I was interested in your one-sided editorial in the June, 1979, issue of *Carolina Country* attacking those of your readers who disagree with your policy on nuclear energy.

I have no quarrel with your right to express your opinion. However, you have an obligation to print opposing views in a matter of life and death.

You have a right to risk your life—no mine.

Doris Matthei
New York City and Polk County

Enjoys Magazine

I really do enjoy *Carolina Country* a whole lot. I especially love the picture on the cover.

Bobby Fritts
Lexington

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Mr. Ervin Huebner
 Columbia, Illinois

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—Spencer Carter, Blue Ridge EMC, Lenoir

Ashe Man Builds His Own 'Windmill'

Dick McKnight's wind-powered generator isn't nearly as big or powerful as the one atop Howard's Knob Mountain in Boone, but he's proud of it just the same.

And rightly so. He built it himself.

A member of Blue Ridge Electric Membership Corporation, Lenoir, McKnight runs a small engine repair service at his home on Mt. View Road near Roaring Gap. He got plans for the generator, he says, from *Wind Power Digest*, a publication devoted to harnessing the wind.

Whittling the blade from a ten-foot piece of 2 x 6 pine, McKnight says, was the most difficult part of the job.

The blade shaft is attached to a 24-volt direct current army surplus generator. Power generated is fed to four six-volt batteries located in a nearby shed.

Batteries are necessary because the wind doesn't blow all the time.

McKnight estimates that at peak wind periods, his generator produces as much as 40 amperes of current. That's enough to light nine 100-watt bulbs when the wind is sufficiently strong.

A 22-foot tower supports the blade and generator. A quill-shaped piece of metal on an arm behind the blade guides it into the wind. A square piece of metal on a crossarm pushes the blade out of the harm's ways when the wind gusts. □

Commentary

CO-OP MUSCLES —There is no strength in parroted opinions and the mimicry of ideas. The collective muscle of 1,000 cooperative members is exercised and flexed with effect because it is the product of 1,000 distinctly individual muscles, each shaped and developed with a special nature of its own.

—Eugene Clifford

Co-op League of the U.S.

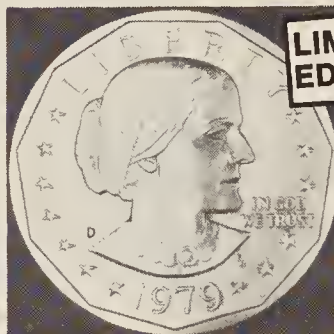
NUCLEAR POWER NEEDED — This nation will need to rely on a broad range of energy sources. The hard fact is that we depend on nuclear power now for 13 percent of all the electricity consumed in the U.S. A few communities, for instance, Chicago, derive more than 50 percent of all their electricity from nuclear power plants. The recommendations of Kemeny Commission investigating the Three-Mile Island incident will help us to ensure safety, but nuclear power must play an important role in the U.S. to ensure our energy future.

—Charles W. Duncan Jr.
DOE Secretary

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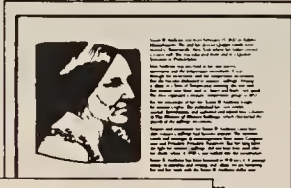
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- Think before you drive. Combine trips and be sure each trip is necessary.
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Timberlake Print Features Familiar 'Iron Eyes' Cody

Keep America Beautiful, Inc., has introduced "Iron Eyes", a limited edition signed and numbered lithograph of the original oil portrait of Iron Eyes Cody by nationally acclaimed North Carolina realist artist Bob Timberlake.

Each of the 1,000 full-color reproductions has been signed and numbered by the artist and by Mr. Cody, who has gained national recognition over the past decade as the "Concerned Indian" in the Keep America Beautiful/National Ad Council public service campaign.

"Iron Eyes" is Mr. Timberlake's second work as KAB's official artist. "Daisies", his portrayal of the simple beauty of America, received wide acclaim and has been appraised by the Art Appraisers Association of America at \$15,500.

Victor J. Hammer, president of the prestigious Hammer Galleries in New York, commented that, "Bob Timberlake has developed one of the largest and most enthusiastic followings in the art world today."

Iron Eyes Cody, a Cherokee/Cree Indian, is a veteran Hollywood and television actor. He began his acting career in silent movies at the age of twelve and since has appeared in over 200 westerns, numerous television specials and his own radio show. Throughout his professional life, Mr. Cody has been an active proponent of human dignity and other vital causes, making countless personal appearances on behalf of Keep America Beautiful, Inc.

The "Iron Eyes" lithographs are available to the public for \$200, part of which is tax deductible. Proceeds go to KAB's educational programs.

Since 1953, Keep America Beautiful, Inc., has provided the national leadership for responsible citizen involvement in environmental improvement. □

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'A Missionary for Conservation'

Most people who have a busy full-time job and a growing family try to divide their time more or less equitably between the two. And no one would fault Ted Holyfield of Salem Fork community in Surry County if he

**Text and photos by Frank Jeter Jr.,
a public information officer for
USDA— Soil Conservation Service
in North Carolina.**

**Ted Holyfield, left, with SCS District
Conservationist B. Fred Patterson on
Holyfield's Surry County farm.**



did just that.

But the chairman of the Surry Soil and Water Conservation District also happens to be a devout believer in conservation—and so he finds time to set a good example of things he believes other landowners should do to protect their resources of soil and water.

A Surry-Yadkin EMC Employee

If you should ask Ted Holyfield his profession, he would doubtless tell you that he stays busy at the office of the Surry-Yadkin Electric Membership Corporation at the Surry County seat of Dobson. He is plant manager and purchasing agent for the electric co-op and applies himself with energy to this job.

He is also justifiably proud of his family. He married Edith White of the Salem Fork community, and they have two children. His daughter, Joan, graduated from Pfeiffer College. His son, Jack, a recent high school graduate, has a lot in common with his father. Active in the Future Farmers of America, Jack has been a district winner in cattle judging and

placed fourth in statewide competition.

The entire family is active in affairs of Salem Fork Baptist Church.

In addition to his salaried job, Ted Holyfield is what his neighbors describe as "a good farmer." On what he describes as his "new farm" (it was purchased in 1977), he produces such crops as tobacco, wheat, corn and high-grade hay, employing a variety of conservation practices that make the farm a showplace.

Most of his rolling 82 acres of Piedmont land are cleared; only 10 acres are covered by woodland. On the cleared land, he grows corn by conservation tillage, and uses stripcropping to prevent soil washing as well as grass waterways to provide for the removal of excess water from cropland.

Spreads Conservation Message

So the farm adds a third dimension to his involvement with his daily work and his family—that's not the end of the story.

B. Fred Patterson, who has served Surry County for 17 years as district conservationist for the Soil Conservation Service, says that Ted Holyfield "is a missionary for conservation. He talks with other farmers, tells them the advantages of conservation practices, and takes them on his own place to show them how well it works."

This approach is highly successful, for conservation is catching on in Surry County. Thirty percent of the county features many farms using the same conservation practices that Holyfield swears by.

Ted Holyfield is unassuming about his role in the program. "Most people will do the right thing if you just let them know what that is," he says.

The chairman—a district supervisor for 11 years—accomplishes this both by word and by example. □

Farming: It's Capital-Intensive

A major characteristic of today's farms is that they are capital-intensive. The capital investment per farm is much larger than in the past, averaging more than \$250,000.

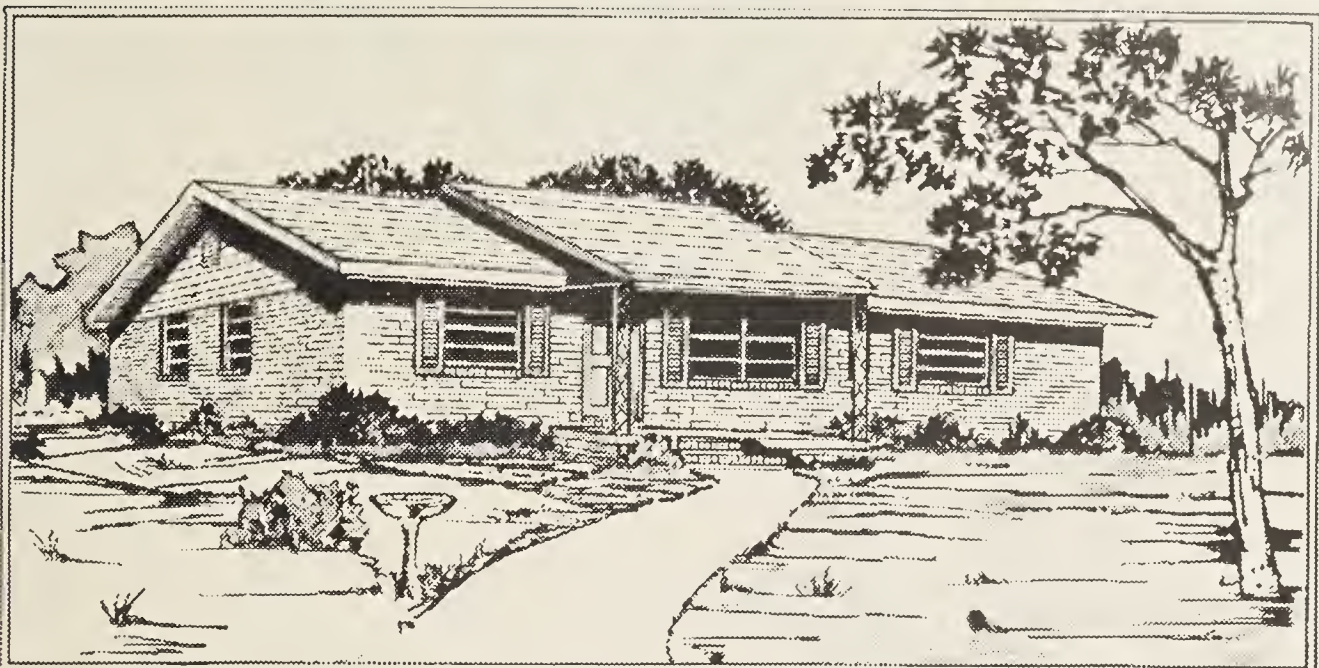
The biggest capital item is land, and land prices have exploded in recent years. In the past 12 years they have tripled, rising from a national average of \$168 per acre in 1967 to \$559 per acre early this year.

Economists with the Agricultural Extension Service, North Carolina State University, say farmland prices are expected to continue to rise, even with changing commodity prices, rapidly increasing farm production costs and record high interest rates.

The U. S. average increase in land prices during the past year was 14 percent. Some forecasts indicate that this rate of gain will be maintained in 1979.

Land prices are the greatest barrier to entry into farming. Many thousands of young persons who would like to acquire a farm simply do not have the financial resources to do so.

Rising land values have enhanced the assets of farm owners, but they adversely affected the net income of renters. And 40 percent of all farmland is farmed today by someone other than the owner. □



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I Take A Lot Of Pride In What I Am; Who'll Buy The Wine; The Day The Rains Came; It Meant Goodbye To Me When You Said Hello To Him; I Can't Hold Myself In Line; I'm Bringin' Home Good News; Keep Me From Cryin' Today; I Just Want To Look At You One More Time; Somewhere On Skid Row; I'm Free; California Blues; I Think We're Livin' In The Good Old Days.
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ENGLEBERT HUMPERDINCK - E-34436 ALBUM \$2.98
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SAMMY KAYE - MCA-278 ALBUM \$2.98
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NO TAPE AVAILABLE

MARTY ROBBINS - CS-8435 ALBUM \$2.98
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SONS OF THE PIONEERS - ANL1-2332 ALBUM \$2.98
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NO TAPE AVAILABLE

TAMMY WYNETTE - E-30733 ALBUM \$2.98
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NC-8

Poet's Corner

The poem below was written by Sandra Savage of Greenville, who is a sophomore at North Carolina State University majoring in animal science. She wrote the poem for a high school English assignment. Her friend, Ricky Jones of Greenville, did the illustration. Sandra is the daughter of Mr. and Mrs. H. T. Savage, Jr. of Greenville, who are consumer-members of Tideland EMC, Pantego.

Ambee Is Gone

He sat in the harbor day after day,
 On the same old pole in the mouth
 of the bay.
 It's as if he claimed this territory his
 own,
 But not anymore, for Ambee is
 gone.

The fishermen always wondered if
 he was alive,
 For he looked like a statue until he
 would dive.
 They all knew him as the "King Sea
 Gull,"
 Cause life around Ambee was
 never dull.

He guarded the harbor with a very
 keen eye,
 And greeted his friends in a
 distinguishing cry.
 Everyone thought of him as their
 own,
 But not anymore, for Ambee is
 gone.



In The Philippines

Tar Heel Joins Celebration

A Raleigh attorney who represents rural electric cooperatives across the country was among the special guests at a recent conference in the Philippines celebrating the nation's connection of the one millionth co-op member.

William T. Crisp and his wife were invited to the first International Conference on Rural Electrification by Philippines President Marcos in recognition of the attorney's role in assisting the nation with the development of its rural electrification laws 10 years ago.

TOP—Philippines President Marcos greets Raleigh attorney William T. Crisp at the International Conference on Rural Electrification. **BOTTOM**—Prior to the conference, participants toured the island government's original pilot electric co-op, the Misamis Oriental Rural Electric Co-op, Inc. Crisp, left, is accompanied by Mr. Deihl, one of the two national assemblymen from the local province, center, and Robert Williams, who was on the original Philippino electrification team from the National Rural Electric Cooperative Association.



Prior to the conference, the Crisps and other conference guests toured three electric co-ops, an operating geothermal generating plant, industrial operations, residential developments and hydroelectric facilities.

Crisp, who was the first general manager of North Carolina's statewide EMC organization and has represented it in legal matters for several years, said he "was completely astonished to find the progress that had been made" in the Philippines since his last visit there seven years ago—much of it "directly as a result of the electrification which is going very rapidly in that country."

The nation's rural electrification program is operated by a government agency modeled after the Tennessee Valley Authority, he said.

Farm Workers To Be Trained as Linemen

A \$376,000 pilot program to train young farmworkers to move into higher paying jobs as telephone and electrical linemen has been approved by Labor Commissioner John C. Brooks.

Brooks and William H. Shipes, executive director of the Migrant and Seasonal Farmworkers Association, signed a contract covering the program. The contract, which is made possible by a Comprehensive Employment and Training Act Title II grant to the association, will support 15 months of training to prepare 40 young farmworkers, primarily North Carolinians, for utility jobs.

Nine months of instruction will be provided at Central Carolina Technical College in Sanford for 20 telephone lineman trainees and at Guilford Technical Institute in Jamestown for 20 electric lineman trainees.

Trainees will get six months' field experience with utility companies operating in North Carolina as part of the program. □



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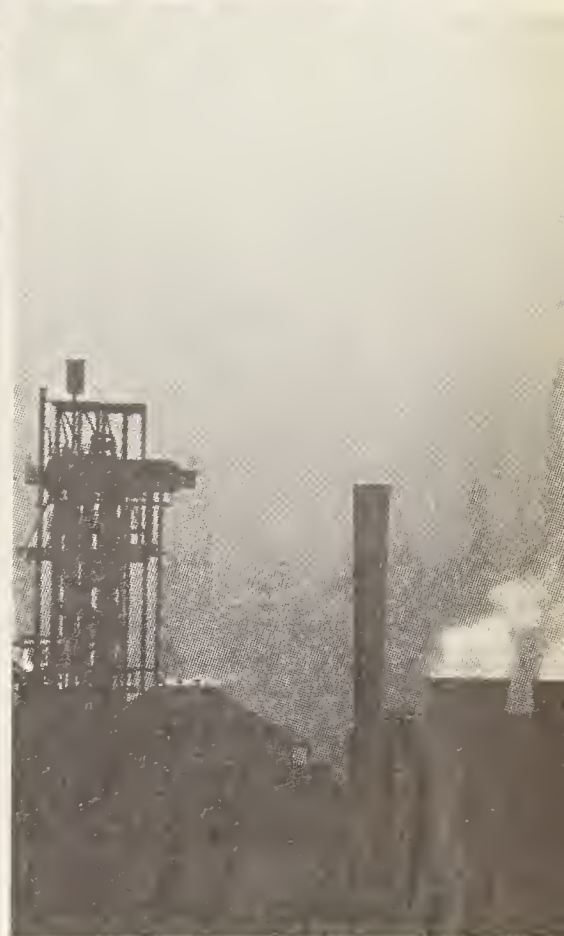
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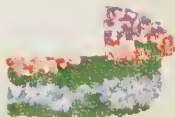
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